

CLAIMS

1. An analog scanning processor for generation of a dynamic focus correction signal for use with a CRT, wherein the dynamic focus correction signal is characterised in that it is proportional to $Kx^2 + (1-K)x^4$, where x is the distance from
5 a mid point of a viewing surface of the CRT, and K is a real number in the range 0.00 to 1.00.

2. An analog scanning processor as claimed in claim 1 wherein the dynamic correction signal is a horizontal dynamic focus correction signal.

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3. An analog scanning processor as claimed in claim 1 wherein the dynamic correction signal is a vertical dynamic focus correction signal.

4. An analog scanning processor as claimed in any one of the preceding
15 claims wherein the processor is arranged to generate a plurality of dynamic correction signals.

5. An analog scanning processor as claimed in any one of the preceding claims including means for generating a dynamic brightness correction signal.

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6. An analog scanning processor as claimed in claim 5 wherein the dynamic correction signal for use in a horizontal direction is different to the dynamic correction signal for use in a vertical direction.

25 7. An analog scanning processor as claimed in any one of the preceding claims wherein the processor includes a shape adjustment circuit arranged to receive as inputs:

- a sawtooth waveform at the deflection frequency;
- a shape control signal; and
- 30 • an amplitude control signal,

wherein the shape adjustment circuit is arranged to produce a signal which approximates closely to the sawtooth input waveform raised to a power n, where n is a real number.

8. An analog scanning processor as claimed in claim 7 wherein the value of n is in the range 2.00 to 4.00